

Swing-out rotor**Power stabilizer within 90V~264V****GMDN Code 36465**

- Brushless drive motor, maintenance free
- RPM /RCF Display and conversion
- Choice of swing-out rotor and fixed angle rotor
- Imbalance alarm & shutout
- Safety Interlocking lid system
- Lid-open override device in case of power failure
- Errors self-diagnostic detection
- Emergency STOP
- Ideal for general purpose or **PRP** use in hospital & clinic
- Built-in power stabilizer within **90V~264V** preventing power surge accidentally

**Intended use:**

A device that is a general-purpose laboratory centrifuge used to separate the components of suspensions by the application of centrifugal force. This device is intended to centrifuge patient samples, e.g. body fluids, either alone or after addition of reagents or other additives before measuring analytes. It is typically a low speed (up to 6000rpm) or medium speed (up to 12000rpm) machine. Ideal for use in clinical laboratory, histology, haematology, immunology, microbiology, pathology, serology and toxicology.

Specifications:

Overall dimension	360 x 450 x 295mm
Net weight	20 kg (not include buckets)
Speed range	100~4000rpm adjustable
Max RCF	2639 x g, LED digital display
Rotor type	Swing-out or fixed angle
Motor	Brush-less, 300W
Timer	2-digital, 99 min, LED digital
Imbalance detection	Yes, alarm and shutout
Errors detection	Yes, automatically
Brake	Automatic braking system
Interlocking lid	Yes
Lid open override device	Yes,
Overheat alarm	Yes
Power source	110V or 230V, 50/60Hz

Buckets (Tube carriers)

Bucket	Capacity / Tubes	Max RPM / RCF
M-1560	1.5ml x 60 tubes	4000 / 2639 xg
M-2260	2.2ml x 60	4000 / 2639 xg
M-0548	5.0ml x 48	4000 / 2639 xg
T-1516	15ml x 16	4000 / 2639 xg
T-5004	50ml x 4	4000 / 2639 xg
A-1615	15ml x 16 (Fixed angle)	4000 / 2639 xg

**WARNING:**

- Maximum speed is restricted below 4000rpm, injury or damage may occur if speed exceeds 4000rpm

Technical Data:

- Sophisticated module electronic circuit for easy maintenance.
- Stainless steel interior chamber and exterior body with powder coating easy for cleaning and scratch free.
- Indicators: Power, Timer, RPM / RCF, LID OPEN, LID LOCK, Alarm, SPIN (SV), STOP, START
- Module Microprocessor-based circuit board ensures excellent performance and easy for maintenance.
- Errors detection: Imbalance, Disengaged connector, overload, Driver overheat, Motor overheat.
- Convert RPM and RCF readings automatically from one to the other just press the keypad slightly.
- LID LOCK lamp illuminates when the Lid is locked securely.
- Automatic braking system brakes to the complete stop gently within 1 minute or any specified minute when the set time elapsed.

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Orbital Shaker

VDRL Shaker/Agitator



VRN-480



VRN-360

GMDN Code: 43845



VRN-210



VRN-480 with Cradle



VRN-200

Specifications : (Subject to change for improvement without advanced notice)

Model	VRN-200	VRN-210	VRN-360	VRN-480
Overall dimension	292 x 292 x 175mm	215 x 200 x 130mm	300 x 320 x 200mm	400 x 200 x 216mm
Platform dimension	263 X 263mm	215 x 175mm	263 x 263mm	422 x 282mm
Speed range ($\pm 3\%$)	75 x 250 rpm	75 x 250 rpm	75 x 250 rpm	40 – 400 rpm
Orbit size (dia.)	21mm	21mm	21mm	25.4mm
Load at 100 rpm	1 kg	1 kg	1 kg	15 kg
Accuracy at 100rpm	± 5 rpm	± 5 rpm	± 5 rpm	± 5 rpm
Net weight	4.2kg	2.2 kg	3.2 kg	14.8 kg
Speed readout	N.A.	N.A.	Tachometer	Tachometer LED
Eccentric	One	One	One	3
Operation	Switch / Timer	Switch / Timer	Switch / Timer	Switch / Timer
Fixed speed (Optional)	130rpm or 100 rpm	130rpm or 100rpm	130rpm or 100 rpm	130rpm or 100rpm

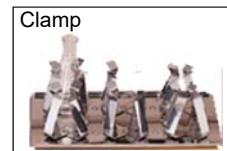
Note: • For counting accurate speed tolerance and acceptable range, please refer to user manual page 5.

• Speed accuracy is attributed to the stabilization of the local power source.

VRN-480 Flask clamps

Code	Volume of Flask	\varnothing of flask	Total No. of held
GE-125	125 ml	71 mm	15 pc
GM-250	250 ml	85 mm	11 pc
GE-500	500 ml	107 mm	6 pc
GE-1000	1000 ml	147 mm	2 pc

Optional accessory for Clamp or Cradle



Clamp
Cradle: 415 x300mm (± 5 mm)
Capacity: 100ml/125ml x 16pc

Features :

- Economical, yet designed for long-term uniform mixing. Ideal for mixing test solutions in micro-titration assays, and also for use in hematology, urology, or EIA/ELISA immunology. Applications for Alpha, Kline, Mazzini, Syphills, Pregnancy and others.
- Textured non-slip rubber foam mixing pad holds various sizes of culture plates, flasks, and test tube racks by means of friction.
- Set speed from 75 ~ 250rpm. Also designed for fixed speed shaking at 130rpm or any other values
- Contoured platform allows VRN-210 to hold three 96-well micro plates and six plates for VRN-200 and VRN-360.
- Operate continuously or set time for intermittent shaking up to 60 minutes.

VRN-480:

- Triple eccentric drive mechanism and counterbalance provide a vibration free $3/8$ " orbit at high speeds, even under heavy of imbalanced loads. The solid-state controlled shaker speed is from 40 ~ 400rpm.
- Choice of platforms i.e. Non-clamp or platform includes four-prong stainless steel clamps or cradle to hold Erlenmeyer flask
- Unit displays speed on an analog tachometer or a 3-digit LED. Speed readout helps improve the repeatability of your test procedures.
- The shaker platform rotates on six permanently lubricated, sealed ball bearings. The entire drive, housed in a precision machine, sits on four cushioned feet that prevent creeping
- Set switch for continuous operation or set time for intermittent operation for timed shaking up to 180 minutes.